

FIGURE 1 The Hairpin Ribozyme

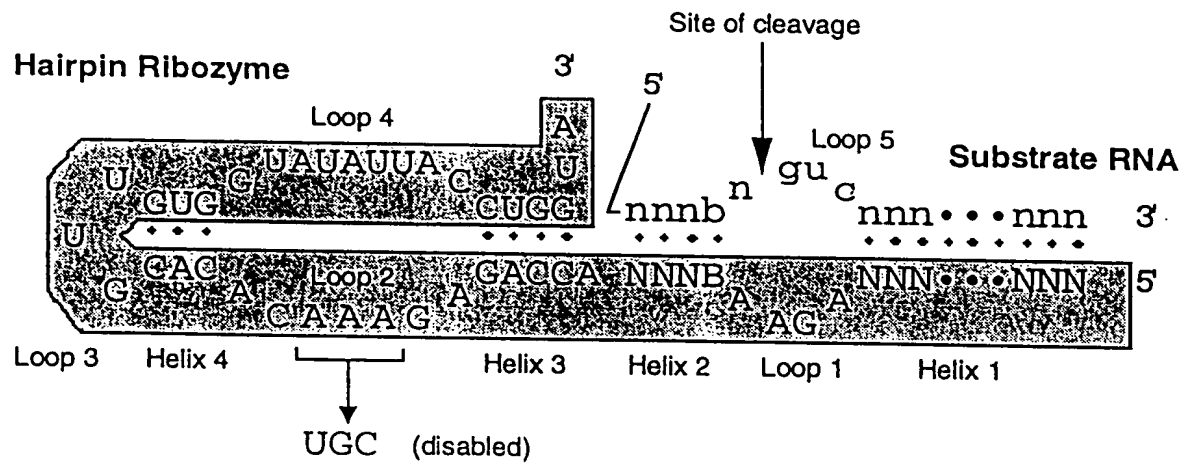


FIGURE 2

Cleavage of target substrates by hairpin Rz library

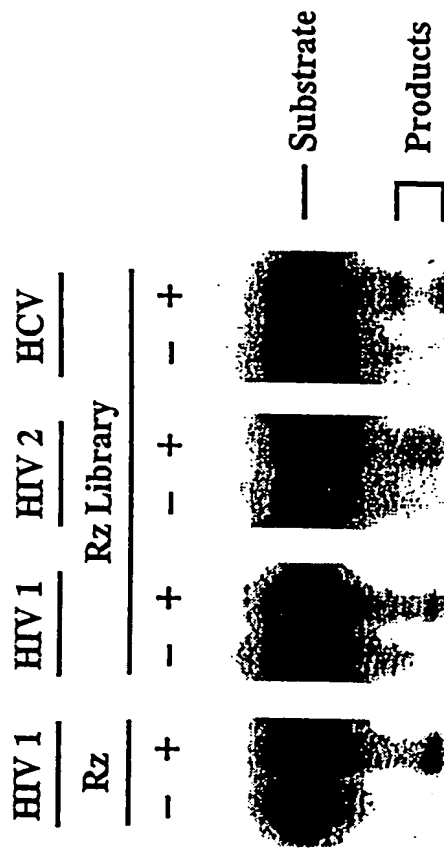


FIGURE 3

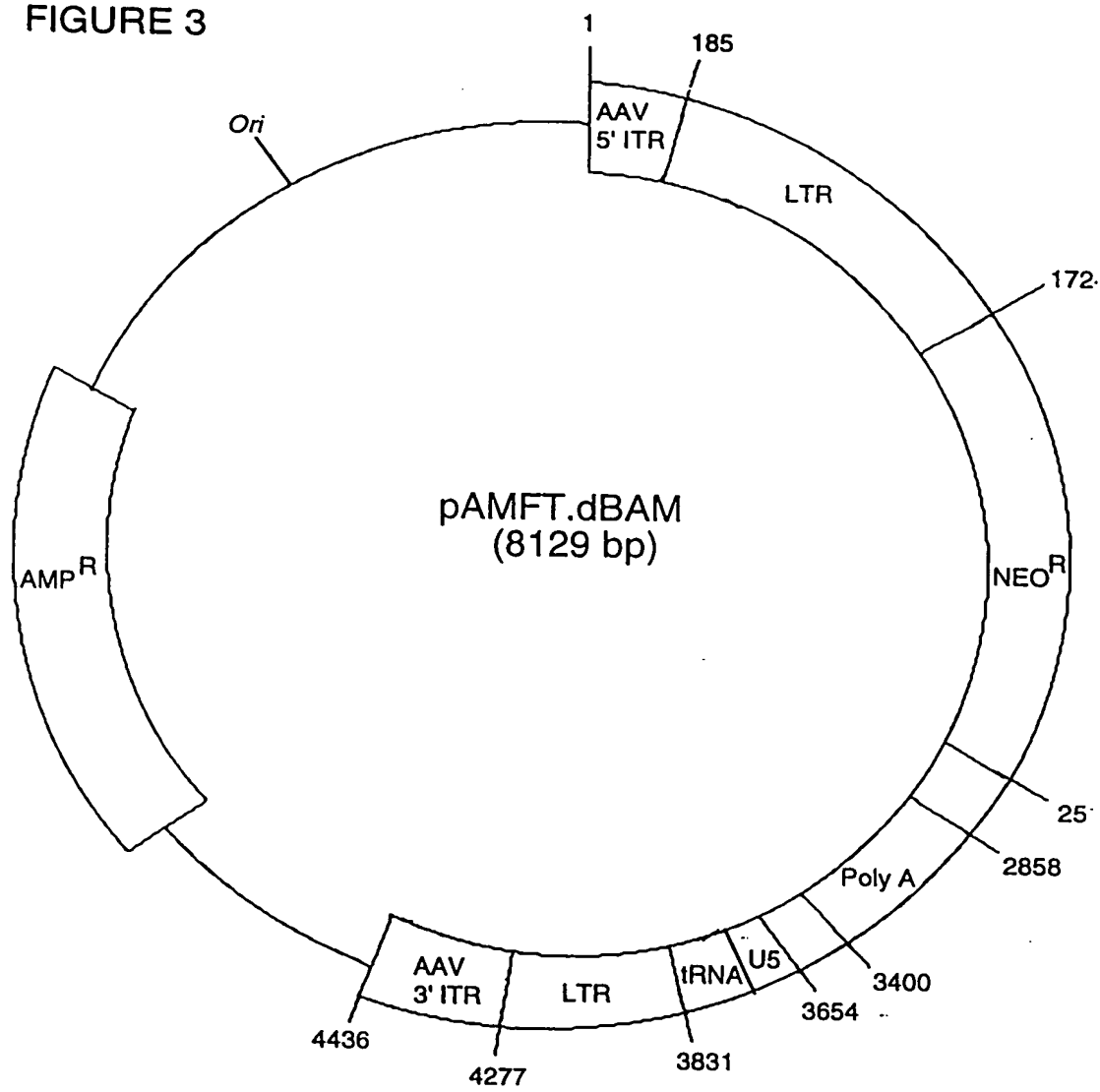


FIGURE 4 Generation of rAAV-RZ-lib provector by PCR

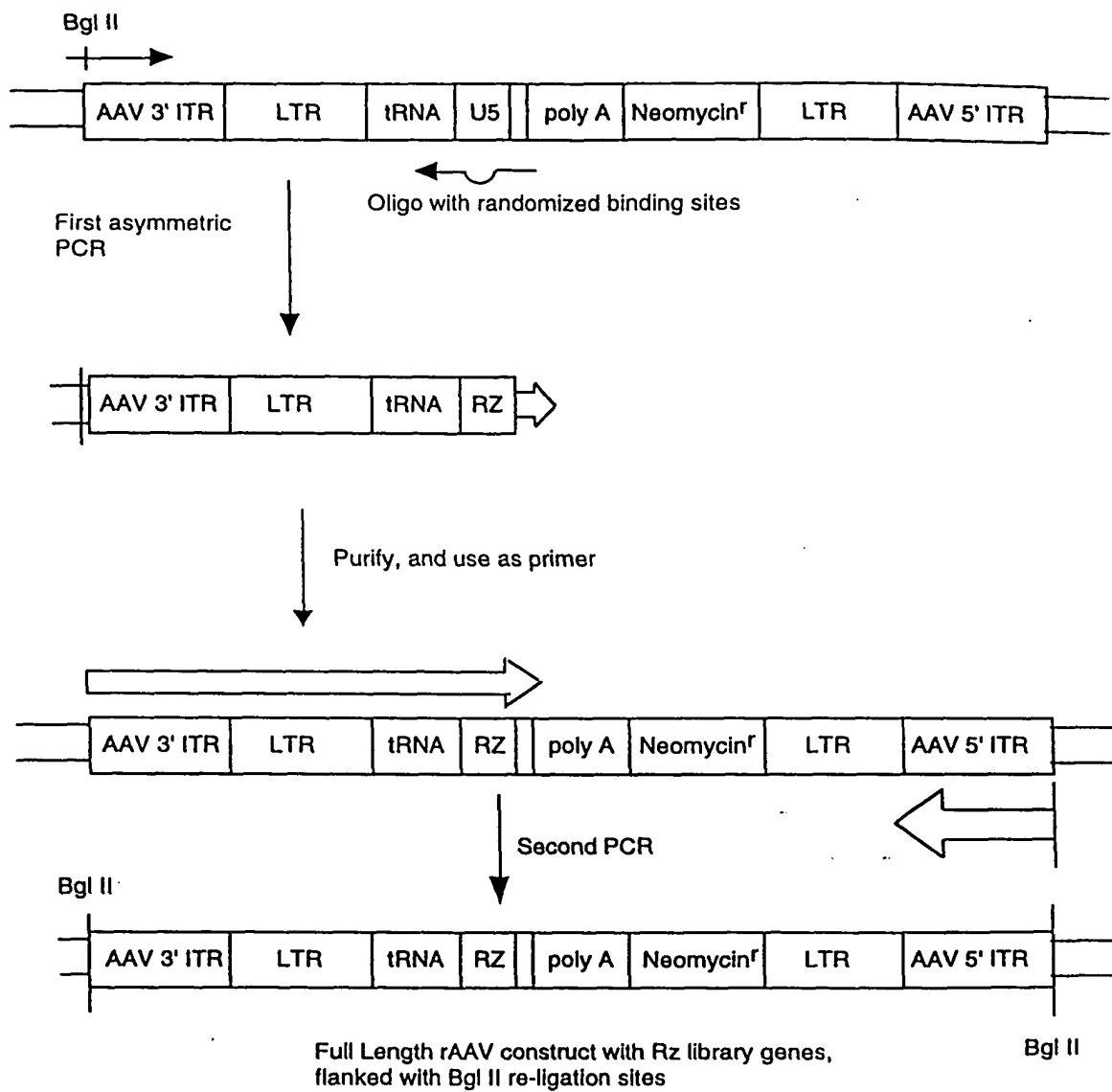


FIGURE 5

PRODUCTION SCHEME FOR ADENO-ASSOCIATED VIRAL VECTOR

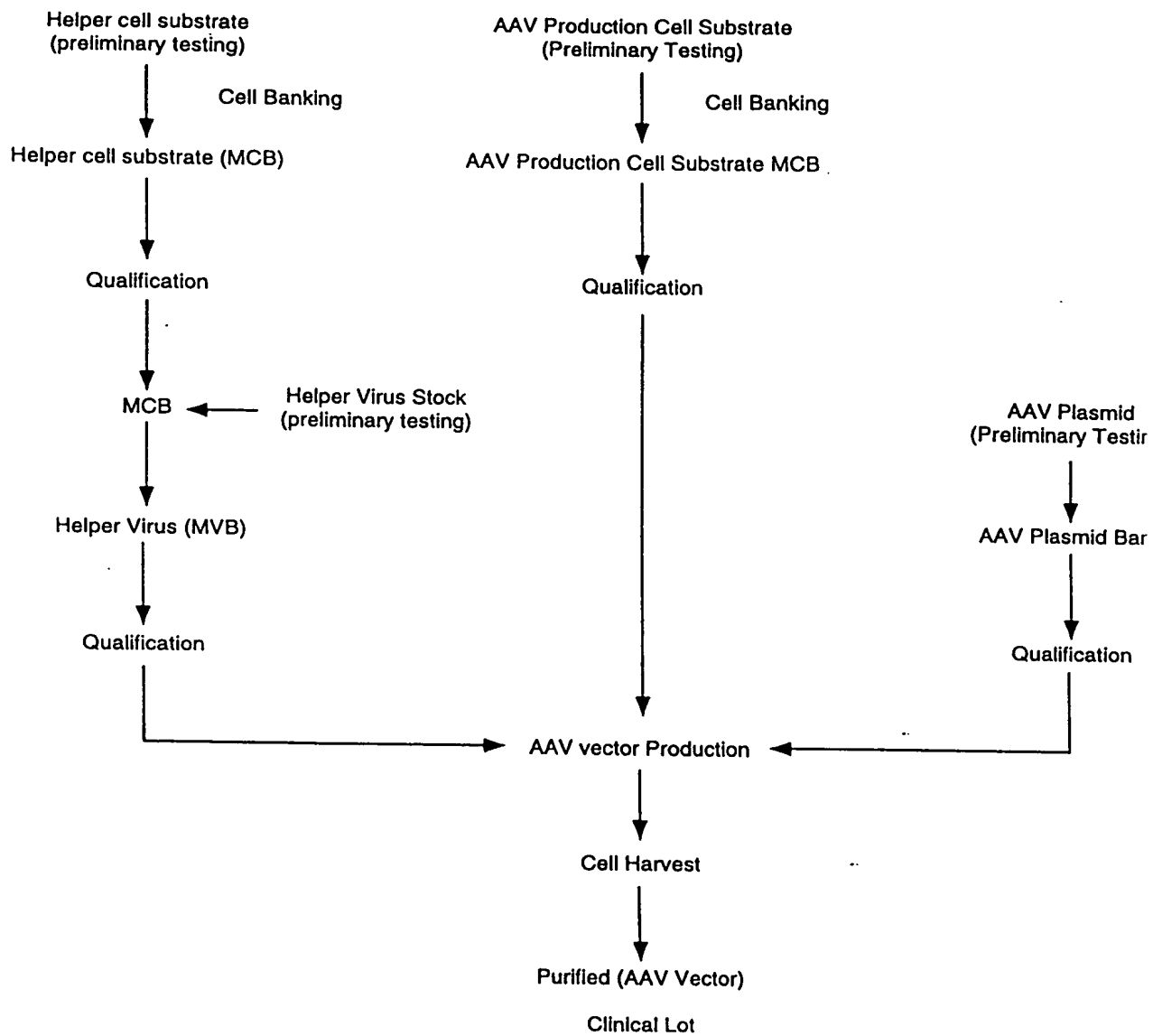


FIGURE 6

Concept of cloning genes using AAV-Rz library

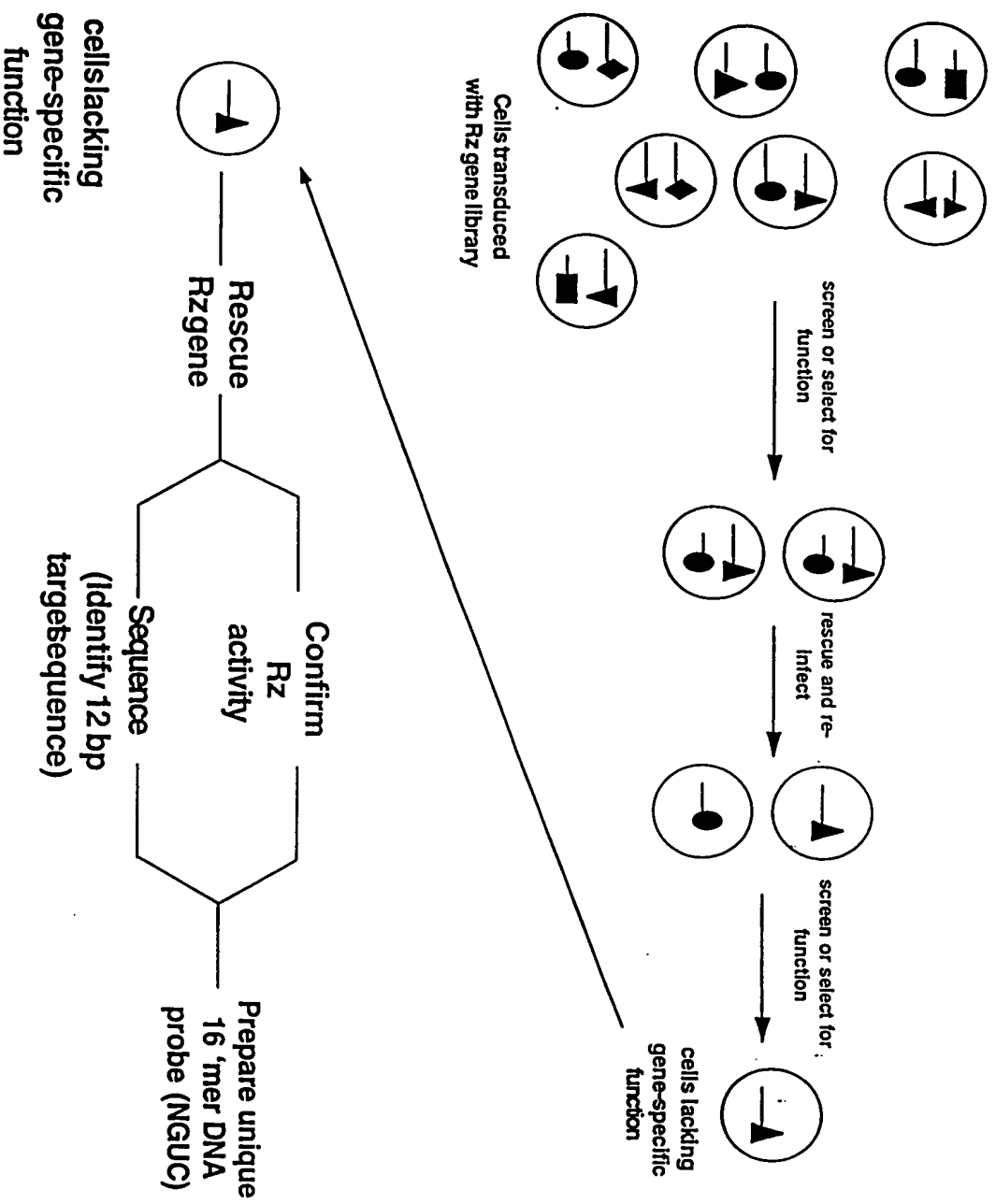
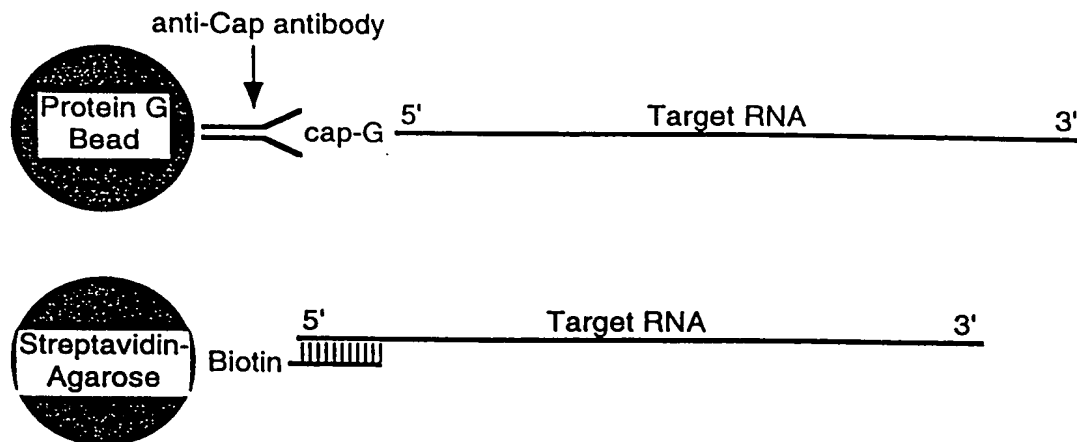


FIGURE 7

Attaching RNA target to solid support

Binding target RNA at 5' end:



Binding target RNA at 3' end:

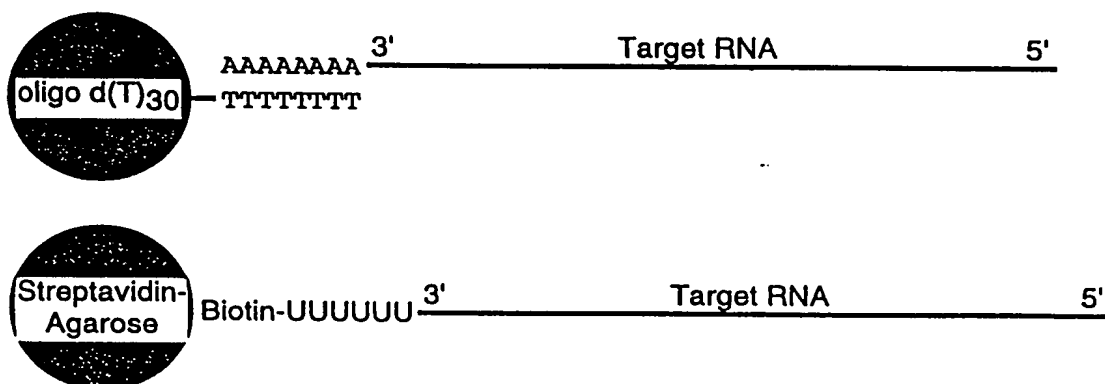
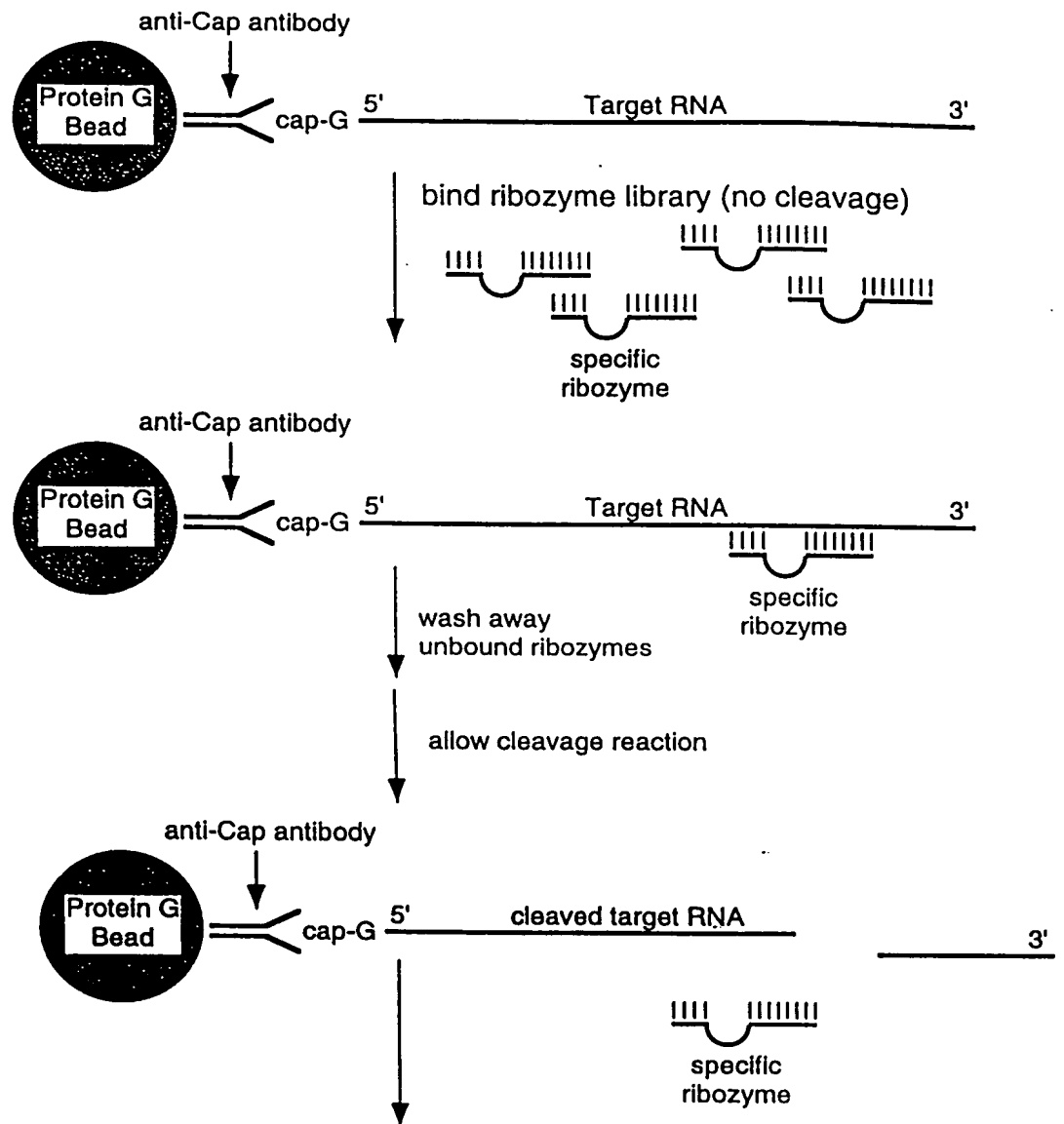


FIGURE 8 In vitro selection of optimal ribozymes



Specific ribozymes elute off the solid support
 Amplify, synthesize and re-apply ribozymes to new column
 Carry out selection multiple times, as necessary

FIGURE 9 AAV stable integration

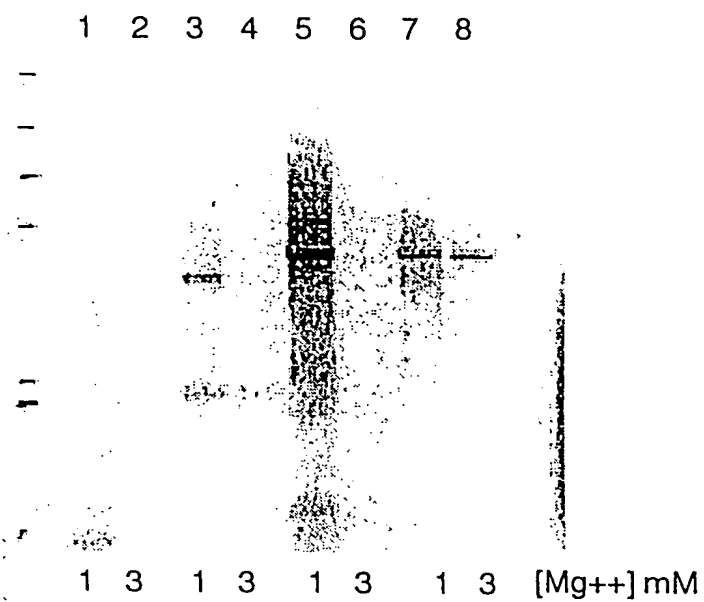
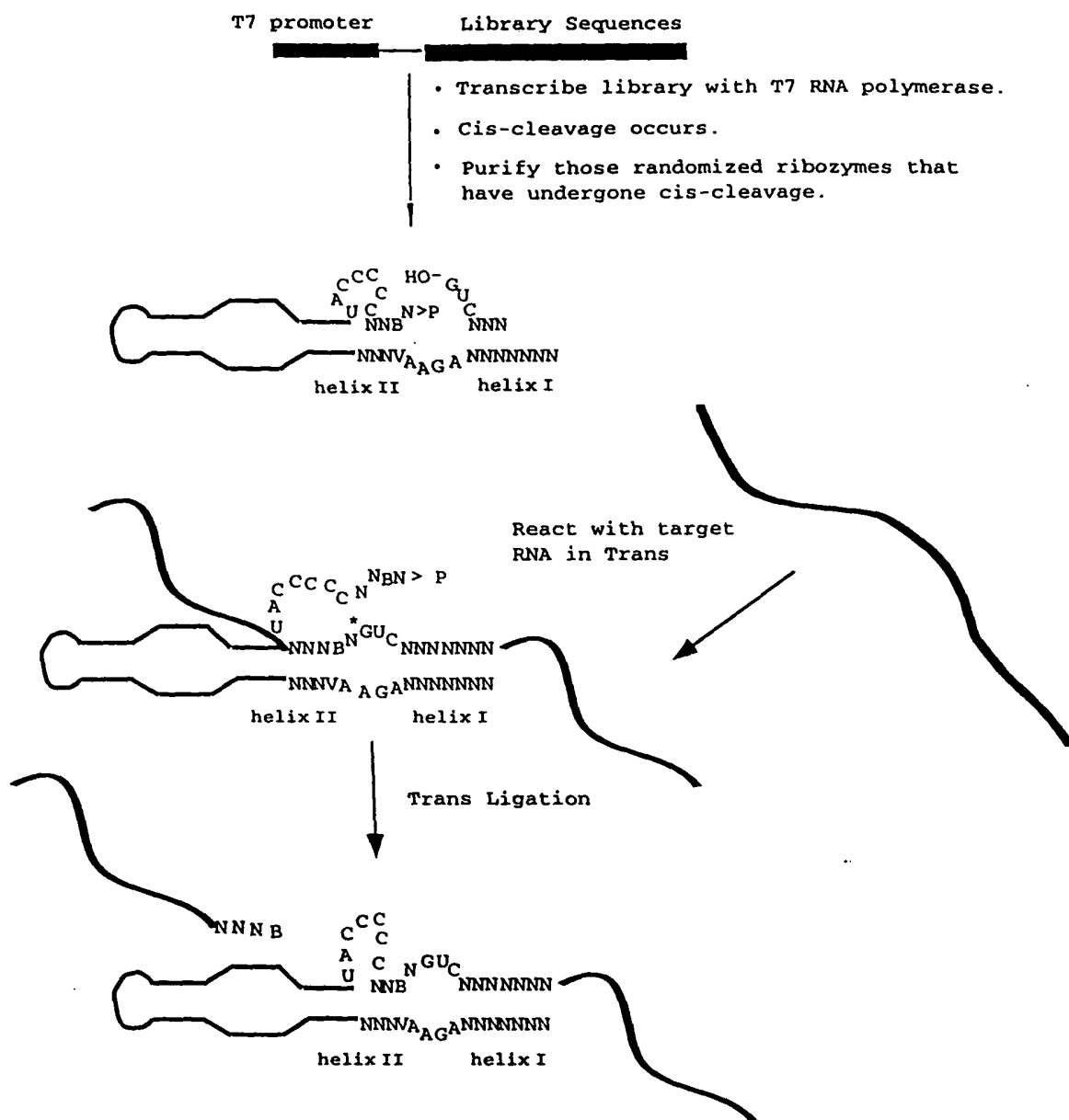


FIGURE 10 Trans Cleavage and Ligation



- Trans-ligated products are isolated and amplified by RT-PCR.
- Trans-ligated ribozymes can then be further amplified and subcloned into AAV vectors for production of a target specific ribozyme gene vector library.